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3/5/02

Docket No. CS-002
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Stephen A. Rago Art Unit: 2171
Serial No.: 09/679,456 Examiner: To be assigned
Filing Date: October 4, 2000
Title: SELF-DESCRIBING FILE SYSTEM

Assistant Commissioner for Patents
Washington, DC 20231

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**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
AND REVOCATION OF PRIOR POWERS**

An assignee of record of the entire interest of the above identified application,

REVOCATION OF PRIOR POWERS OF ATTORNEY

All powers of attorney previously given are hereby revoked and

NEW POWER OF ATTORNEY

The following practitioners are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith:

Andrew N. Parfomak, Registration No. 32,431
Frederick H. Rabin, Registration No. 24,488
William J. Hone, Registration No. 26,739
Stephan J. Filipek, Registration No. 33,384
John B. Pegram, Registration No. 25,198
Richard P. Ferrara, Registration No. 30,632
Samuel Borodach, Registration No. 38,388
John M. Gunther, Registration No. 26,175
Leanne J. Fitzgerald, Registration No. 40,606
William R. Clark, Registration No. 29,523
Penelope S. Wilson, Registration No. 29,751
Krishnendu Gupta, Registration No. 37,977
Robert L. Dulaney, Registration No. 28,071
Robert Kevin Perkins, Registration No. 36,634
Christopher K. Gagne, Registration No. 36,142

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Stephen A. RagoApplication No./Patent No.: 09/679,456Filed/Issue Date: October 4, 2000Entitled: SELF-DESCRIBING FILE SYSTEMEMC Corporation, a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Stephen A. Rago To: CrosStor Software, Inc.
The document was recorded in the United States Patent and Trademark Office at Reel 011157, Frame 0532, or for which a copy thereof is attached.

2. From: CrosStor Software, Inc. To: EMC Corporation
The document was recorded in the United States Patent and Trademark Office at Reel 011471, Frame 0574, or for which a copy thereof is attached.

3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

5-4-01

Date

Paul T. Dacier

Typed or printed name

Signature

Vice President and General Counsel

Title

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Docket No. CS-002
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Stephen A. Rago Art Unit: 2171
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Assistant Commissioner for Patents
Washington, DC 20231

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Sir:

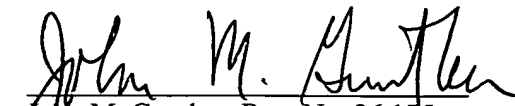
Transmitted herewith are the following documents:

1. Power of Attorney by Assignee of Entire Interest and Revocation of Prior Powers;
2. Statement Under 37 CFR 3.73(b);
3. Certificate of Mailing; and
4. Return Receipt Postcard.

If the enclosed papers are incomplete, please contact the undersigned at (508) 435-1000 ext. 77255.

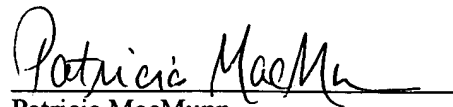
Applicant believes no fee to be due for this filing, however, authorization is hereby granted to the Assistant Commissioner of Patents to charge any fee due in connection with this filing to Deposit Account No. 05-0889. A duplicate copy of this paper is enclosed.

Respectfully submitted,


John M. Gunther, Reg. No. 26,175
EMC Corporation
35 Parkwood Drive
Hopkinton, MA 01748
(508) 435-1000

Certificate of Mailing Under 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231 on May 4, 2001.


Patricia MacMunn



DECEMBER 11 2000



3108-10705
UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

WOODBRIDGE & ASSOCIATES, P.C.
RICHARD C. WOODBRIDGE, ESQ.
P.O. BOX 592
PRINCETON, NJ 08542

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101493082A

COPY

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/04/2000

REEL/FRAME: 011157/0532
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

RAGO, STEPHEN A.

DOC DATE: 10/03/2000

ASSIGNEE:

CROSSTOR SOFTWARE, INC.
4041 HADLEY ROAD
SOUTH PLAINFIELD, NEW JERSEY 07080

SERIAL NUMBER: 09679456
PATENT NUMBER:

FILING DATE:
ISSUE DATE:

MARY BENTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

DEC 18 2000

ET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

10-19-2000



101493082

e attached original documents or copy thereof.

1. Name of conveying party(ies):

STEPHEN A. RAGO

10/4/00

Additional names(s) of conveying party(ies) ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: October 3, 2000

2. Name and address of receiving party(ies):

Name: CrosStor Software, Inc.

Internal Address: _____

Street Address: 4041 Hadley RoadCity: South Plainfield State: NJ ZIP: 07080Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or registration numbers(s):

09 679456

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Richard C. Woodbridge, Esq.Internal Address: Woodbridge & Associates, P.C.Street Address: P.O. Box 592City: Princeton State: NJ ZIP: 085426. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41):.....\$ 40.00☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☐ Authorized to be charged to deposit account

8. Deposit account number:

23-3040

10/19/2000 GTON11 00000011 09679456

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Richard C. Woodbridge, Esq.

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 2

PTO
09/679456
10/04/00

ASSIGNMENT

WHEREAS, Stephen A. Rago, as assignor(s), has (have) invented certain improvements in a Self-Describing File System for which an application for United States Letters Patent has been executed by assignor(s) on October 3, 2000 and whereas, CrosStor Software, Inc., 4041 Hadley Road, South Plainfield, NJ 07080, a New Jersey corporation, as assignee, is desirous of acquiring all right, title and interest in and to said invention and any Letters Patent that may be granted therefor.

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the assignor(s) hereby sell, assign and set over to said assignee the entire right, title and interest for the United States and all other countries in and to said invention and the aforesaid application for Letters Patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States and all countries foreign, and the Commissioner of Patents is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for himself and his legal representative, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representative all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to said assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

By Stephen A. Rago
STEPHEN A. RAGO

State of New Jersey :
County of Meriden : ss:

This 3rd day of October, 2000 before me personally came the above named, STEPHEN A. RAGO, to me known as the individual who executed the foregoing instrument who acknowledged to me that the same was executed by him/her of his/her own free will for the purpose therein set forth.

Paula S. Rosenhaus
Notary Public

(SEAL)

PAULA S. ROSENHAUS
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires June 2, 2001



APRIL 11, 2001



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UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231



101601949A

EMC CORPORATION
LEANNE J. FITZGERALD
35 PARKWOOD DRIVE
HOPKINTON, MA 01748

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/16/2001

REEL/FRAME: 011471/0574
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

CROSSTOR SOFTWARE, INC.

DOC DATE: 01/10/2001

ASSIGNEE:

EMC CORPORATION
35 PARKWOOD DRIVE
HOPKINTON, MASSACHUSETTS 01748

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Technology Center 2100

SERIAL NUMBER: 09679456
PATENT NUMBER:

FILING DATE: 10/04/2000
ISSUE DATE:

TARA WASHINGTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

02-01-2001

FC: PTO-1595
(Rev. 3-93)
OMB No. 0651-0011 (exp. 4/94)

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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office



101601949

To the Honorable Commissioner of Patents

attached original documents or copy thereof.

1. Name of conveying party(ies):

CrossStor Software, Inc.

2. Name and address of receiving party(ies):

Name: EMC Corporation

Internal Address: _____

Street Address: 35 Parkwood DriveCity: Hopkinton State: MA ZIP: 01748Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: January 10, 2001

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

09/679,456

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Leanne J. FitzgeraldInternal Address: EMC CorporationStreet Address: 35 Parkwood DriveCity: Hopkinton State: MA ZIP: 017486. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41) \$ 40.00

- ☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number:

05-0889

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Leanne J. Fitzgerald

Name of Person Signing

01/31/2001 AAHME1 00000160 050889

09679456

Signature

Date

4

Total number of pages including cover sheet, attachments, and document:

FC:581

40.00 CH

Mail documents to be recorded with required cover sheet information to:
 Commissioner of Patents & Trademarks, Box Assignments
 Washington, D.C. 20231

ASSIGNMENT

WHEREAS, CrosStor Software, Inc., a New Jersey corporation having its principal place of business at 4041 Hadley Road, South Plainfield, New Jersey 07080, hereinafter referred to as "ASSIGNOR", is the owner of the entire right, title and interest in and to a pending U.S. patent, Serial No. 09/679,456 ("the Assigned Patent"); and

WHEREAS, EMC CORPORATION, a Massachusetts corporation having its principal place of business in Hopkinton, Massachusetts, hereinafter referred to as "ASSIGNEE", desires to acquire ASSIGNOR's entire right, title and interest in and to the Assigned Patent;

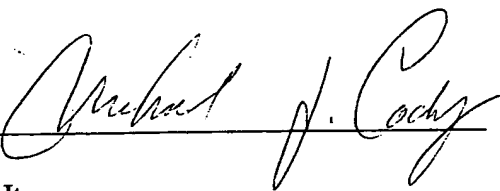
NOW THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has assigned, and by these presents does assign to ASSIGNEE its entire right, title and interest in and to the Assigned Patent, and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by ASSIGNEE and ASSIGNEE's successors and assigns as fully and exclusively as it would have been held and enjoyed by ASSIGNOR had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, conversion, reissue, prolongation or extension thereof.

ASSIGNOR further agrees that ASSIGNOR will, without charge to ASSIGNEE, but at ASSIGNEE's expense, (a) cooperate with ASSIGNEE in the prosecution of the pending U.S. application, (b) execute, verify, acknowledge and deliver all such further papers, including, without limitation, patents and patent applications, and instruments of transfer thereof, and (c) perform such other acts as ASSIGNEE lawfully may request to obtain or

maintain the Assigned Patents and Applications in any and all countries, and to vest and perfect title thereto in ASSIGNEE, or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, this Agreement is executed this 10th day of JANUARY, 2001.

CrosStor Software, Inc.

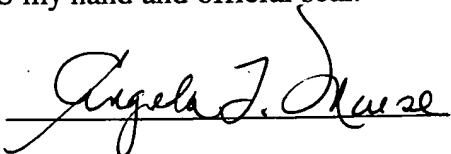
By: 
Its _____

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF MIDDLESEX

On JANUARY 10, 2001 before me, a notary public, MICHAEL J. CODY, personally appeared and proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the entity upon behalf of which the person acted, execute the instrument.

WITNESS my hand and official seal.

Signature  (Seal)

ANGELA E. MUISE
Notary Public
My Commission Expires February 12, 2004



SEND CORRESPONDENCE TO:

Andrew N. Parfomak
Fish & Richardson, P.C.
45 Rockefeller Plaza, Suite 2800
New York, New York 10111

DIRECT TELEPHONE CALLS TO:

Andrew N. Parfomak
(212) 765-5070

Assignee:

EMC Corporation
35 Parkwood Drive
Hopkinton, MA 01748

Recorded in the PTO on January 16, 2001
Reel: 011471
Frame: 0574

ASSIGNEE STATEMENT

Attached to this Power of Attorney is a Statement Under 37 C.F.R. § 3.73(b).

Date: 5-4-01

Paul T. Dacier, Vice President and General Counsel
EMC Corporation
35 Parkwood Drive
Hopkinton, MA 01748

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